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- (2) Non-standard hand signals. When using non-standard hand signals, the signal person, operator, and lift director (where there is one) must contact each other prior to the operation and agree on the non-standard hand signals that will be used.
- (d) New signals. Signals other than hand, voice, or audible signals may be used where the employer demonstrates that:
- (1) The new signals provide at least equally effective communication as voice, audible, or Standard Method hand signals, or
- (2) The new signals comply with a national consensus standard that provides at least equally effective communication as voice, audible, or Standard Method hand signals.
- (e) Suitability. The signals used (hand, voice, audible, or new), and means of transmitting the signals to the operator (such as direct line of sight, video, radio, etc.), must be appropriate for the site conditions.
- (f) During operations requiring signals, the ability to transmit signals between the operator and signal person must be maintained. If that ability is interrupted at any time, the operator must safely stop operations requiring signals until it is reestablished and a proper signal is given and understood.
- (g) If the operator becomes aware of a safety problem and needs to communicate with the signal person, the operator must safely stop operations. Operations must not resume until the operator and signal person agree that the problem has been resolved.
- (h) Only one person may give signals to a crane/derrick at a time, except in circumstances covered by paragraph (j) of this section.
 - (i) [Reserved.]
- (j) Anyone who becomes aware of a safety problem must alert the operator or signal person by giving the stop or emergency stop signal. (NOTE: § 1926.1417(y) requires the operator to obey a stop or emergency stop signal).
- (k) All directions given to the operator by the signal person must be given from the operator's direction perspective.
- (1) [Reserved.]
- (m) Communication with multiple cranes/derricks. Where a signal person(s)

- is in communication with more than one crane/derrick, a system must be used for identifying the crane/derrick each signal is for, as follows:
- (1) for each signal, prior to giving the function/direction, the signal person must identify the crane/derrick the signal is for, or
- (2) must use an equally effective method of identifying which crane/derrick the signal is for.

§ 1926.1420 Signals—radio, telephone or other electronic transmission of signals.

- (a) The device(s) used to transmit signals must be tested on site before beginning operations to ensure that the signal transmission is effective, clear, and reliable.
- (b) Signal transmission must be through a dedicated channel, except:
- (1) Multiple cranes/derricks and one or more signal persons may share a dedicated channel for the purpose of coordinating operations.
- (2) Where a crane is being operated on or adjacent to railroad tracks, and the actions of the crane operator need to be coordinated with the movement of other equipment or trains on the same or adjacent tracks.
- (c) The operator's reception of signals must be by a hands-free system.

§ 1926.1421 Signals—voice signals—additional requirements.

- (a) Prior to beginning operations, the operator, signal person and lift director (if there is one), must contact each other and agree on the voice signals that will be used. Once the voice signals are agreed upon, these workers need not meet again to discuss voice signals unless another worker is added or substituted, there is confusion about the voice signals, or a voice signal is to be changed.
- (b) Each voice signal must contain the following three elements, given in the following order: function (such as hoist, boom, *etc.*), direction; distance and/or speed; function, stop command.
- (c) The operator, signal person and lift director (if there is one), must be able to effectively communicate in the language used.